Reid Wagner

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Summary

Physics-educated software engineer currently in a DevOps position interested in moving into a full developer role. The mathematical basis of my college degree and the technical knowledge of system administration from DevOps converge nicely to complement my development skills. I especially love to learn about kernel development, compilers, and other low level topics, as well as web technology. Professionally, I'm interested in pursuing opportunites in many domains.

Technical Knowledge

Languages (by experience):
  Most: C, Java, Python, Bash, Matlab
  Some: Rust, Lisp, Haskell, x86 assembly, SQL, HTML, CSS
  Brief: Perl, PHP, Groovy, R, Batch
Tools: Linux and utilities, JBoss Enterprise Application Platform, Enterprise Java Beans, Cygwin, Vim, Emacs, Eclipse, Git, Ant, Maven, Rundeck, Jenkins, Ansible, Wireshark, SSL/TLS, Openstack, Solidworks (CAD), TeX, 3D Printing.

Experience

Software Engineer — Thomson Reuters
Jan 2016 - Present

Managed multiple facets of transition of entire production environment to remote datacenter - especially creation of prototype environments on the private cloud and optimization of the build process. Developed HTTP request log analyzer and plotter for custom needs. Collaborated with Red Hat contractors in upgrading of JBoss (and Java). Contributed application Java code for DevOps needs.

Junior Scientist — U. of Minneosta Physics and Astronomy
Sep 2014 - Sep 2015

Optimized spacial, mass, stress, and thermal considerations through design and simulation for experimental cosmology CMB microwave telescope. Programmed Visual Basic scripts to operate on large assemblies. Worked with custom Python data analysis libraries. Machined custom aluminum and steel parts for twelve foot educational demonstration.

Research Intern — Engineo Co., Ltd.
Jan 2013 - Aug 2013

Assisted in sales and installation of solar panel and wind turbine energy systems. Carried out experiments including comparison of efficiency of different charge controllers and the cooling high-power LEDs with thermosyphons.

Research Intern — U. of Michigan Materials Science and Engineering
June 2009 - Aug 2009

Developed methods of viewing and analyzing higher-dimensional data. In MATLAB, created four-dimensional data sets with various mathematical models. In IDL, rendered data sets with various techniques incorporating the three spacial dimensions and a color gradient.

Peer Consultant — Kalamazoo College Math-Physics Center
Oct 2013 - June 2014

Helped guide students through studying and homework for college-level math and physics, with a focus on leading students to solutions and strategies over teaching by example.

Education

Kalamazoo College
2010 - 2014
B.A. in Physics and Mathematics - Honors in Physics

International Sustainable Development Studies Institute
Aug 2012 - Feb 2013
Study abroad program in Chiang Mai, Thailand

Awards

John Wesley Hornbeck Prize - Awarded to the senior with the highest achievement for the year's work in advanced physics major
Beeler Fellowship - Awarded to fund senior thesis abroad
Founders Merit Scholarship - Awarded to students who combine strong academic achievement with significant engagement in cocurricular, work, and voluntary activities
Honors in Physics Degree